

## CONCRETE BATCH AND YIELD COMPUTATIONS

BATCH QUANTITIES – ONE CU. YD. BATCH							
Property	Cement	Water	Sand	Coarse Aggregate			Total
Proportion by weight							
Batch weights, lbs. (Agg. sat. & surf. dry)							
Total moisture in agg.      % by weight							
Absorption (sat. factor) of Agg.,      % by weight							
Surface moisture in Aggr.      % by weight (by test or assumed)							
Surface moisture in Aggr., lbs. (% x wt. of Aggr./100)							
Batch weights, lbs.							

NOTE:

If surface moisture of aggregate is determined directly by test or assumed, the lines for total moisture and absorption are omitted.

YIELD - ONE CU. YD. BATCH							
Property	Cement	Water	Sand	Coarse Aggregate			Total
Batch weights, lbs. (Aggr. sat. & surf. dry)							
Specific gravity (assumed for cement, by test or assumed for aggregate)							
Absolute volume, cu. ft. $= \frac{\text{Wt.}}{\text{sp. gr.} \times 62.4}$							

  

Yield = cu. ft. concrete per sack of cement                                            =                      cu. ft.

Sacks cement per cu. yd. of concrete                                         =                      sacks

Yield = 
$$\frac{\text{Tot. wt. materials}}{\text{Unit weight of concrete, lbs./cu. ft.}}$$
 =              =                      cu. ft.